

3. (Amended) The field coil of claim 1 wherein said field coil comprises a single helically wound member.

4. (Amended) The field coil of claim 1 wherein each layer comprises a discrete winding.

9. (Amended) A field coil for an electromagnetic rotor comprising multiple layers, said layers each substantially entirely coated with a powder resin selected from a group consisting essentially of epoxy powder resins and silicone powder resins, wherein said powder resin has a dielectric strength of at least 1000 v/mil and thermal stability above 155° C.

18. (Amended) A copper field coil for an electromagnetic rotor comprising helically wound layers, each layer substantially entirely coated with insulation comprising a powder resin having a dielectric strength of at least 1000 v/mil, and a thermal stability about 155°C.